Assignment 01

Code the following in MATLAB

The Yahoo Finance API can be used to returns stock price data for a given symbol. In this example, YHOO daily price from 4/13/2009 to 1/28/2010 is requested.

http://ichart.finance.yahoo.com/table.csv?s=YHOO&d=0&e=28&f=2010&g=d&a=3&b=13&c=2009&ignore=.csv

The details of the parameters are as follows:

s	Ticker symbol (YHOO in the example)
a	The "from month"• - 1
b	The "from day"• (two digits)
c	The "from year"•
d	The "to month"• - 1
e	The "to day"• (two digits)
f	The "to year"•
g	d for day, m for month, y for yearly

	A	B	C	D	E	F	G
1	Date	Open	High	Low	Close	Volume	Adj Close
2	1/28/2010	15.93	15.96	15.44	15.44	30159500	15.44
3	1/27/2010	16.46	16.49	15.77	15.98	41701000	15.98
4	1/26/2010	15.82	16.17	15.7	15.99	43979400	15.99
5	1/25/2010	16.07	16.11	15.74	15.86	19683700	15.86
6	1/22/2010	16.08	16.21	15.81	15.88	25132800	15.88
7	1/21/2010	16.39	16.58	16.1	16.2	21858400	16.2
8	1/20/2010	16.65	16.68	16.25	16.38	14419500	16.38
9	1/19/2010	16.78	16.96	16.64	16.75	15182600	16.75
10	1/15/2010	17.25	17.25	16.75	16.82	18415000	16.82
11	1/14/2010	16.81	17.23	16.8	17.12	16715600	17.12

(4 points) Write a function that reads an Excel file for a number of stock symbols, then for each symbol the function

- (1 point) sends requests to Yahoo Finance API repeatedly, retrieves the response and stores the response in a variable
- (2 point) gets the Adjusted Closing Price column
- (1 point) stores the Adjusted Closing Price as a column (without the header) in the output variable

The function takes the API parameters above as the input variables (except "s"). For N symbols, there should be N columns in the output variable.

(1 point) Write sample code that calls the function above, return data into a variable, save the data to an Excel file.

Hint: You can use MATLAB function urlread() to read the response and store the result in a variable as follows:

x=urlread('http://ichart.finance.yahoo.com/table.csv?s=YHOO&d=0&e=28&f=2010&g=d&a=3&b=13&c=2009&ignore=.csv')

To split rows, use this syntax

data=strsplit(x, '\n');

For each row, in order to split it into multiple columns

arow=strsplit(sprintf('%s',row{:}),',')

in which the variable "row" is an element in the cell array "data". "arow" is a cell array

Submission includes code, all the Excel files, and a document explaining your work.